7. (Amended) Process according to Claim 1, characterized in that the microreactor has channels having a diameter of from 10 to 1000μm, preferably from 20 to 800 μm, particularly preferably from 30 μm to 400 μm.

8. (Amended) Process according to Claim 1, characterized in that the reaction mixture flows through the microreactor at a flow rate of from 0.1 μm/min to 10 ml/min, preferably from 1 μl/min to 1 ml/min.

9. (Amended) Process according to Claim 1, characterized in that the residence time of the compounds employed in the microreactor, where appropriate in the microreactor and the capillaries, is ≤ 3 hours, preferably ≤ 1 hour.

10. (Amended) Process according to Claim 1, characterized in that it is carried out at a temperature of from -90 to +150°C, preferably from -20 to +40°C, particularly preferably from -10 to +20°C.

11. (Amended) Process according to Claim 1, characterized in that the course of the reaction is monitored by chromatography, preferably gas chromatography, and where appropriate regulated.

12. (Amended) Process according to Claim 1, characterized in that the brominated product is isolated from the reaction mixture by extraction or precipitation.

13. (Amended) Process according to Claim 1, characterized in that the brominating reagent employed is elemental bromine, dibromoisocyanuric acid, N-bromosuccinimde, hypobromous acid, organic hypobromites, preferably trifluoroacetyl hypobromite, N-bromoacetamide, N –bromophthalimide, pyridinium perbromide and/or dioxane dibromide.

14. (Amended) Process according to Claim 1, characterized in that the catalyst employed is iodine, mineral acids, preferably sulphuric acid or nitric acid, and/or Lewis acids, preferably aluminum halides, iron halides, zinc halides or antimony halides.

Q1

15. (Amended) Process according to Claim 1, characterised in that between 0.1 and 100 mol%, preferably between 1 and 10 mol%, of the catalyst are employed, based on the amount of organic compound employed.

18. (Amended) Bromination microreactor according to Claim 16, characterized in that the residence zone is a capillary, preferably a heatable capillary.

Q2

19. (Amended) Bromination microreactor according to Claim 16, characterised in that it is heatable.